

Product Catalogue

EENOVANCE ENERGY TECHNOLOGY CO., LTD



Shenzhen EEnovance Energy Technology CO., LTD

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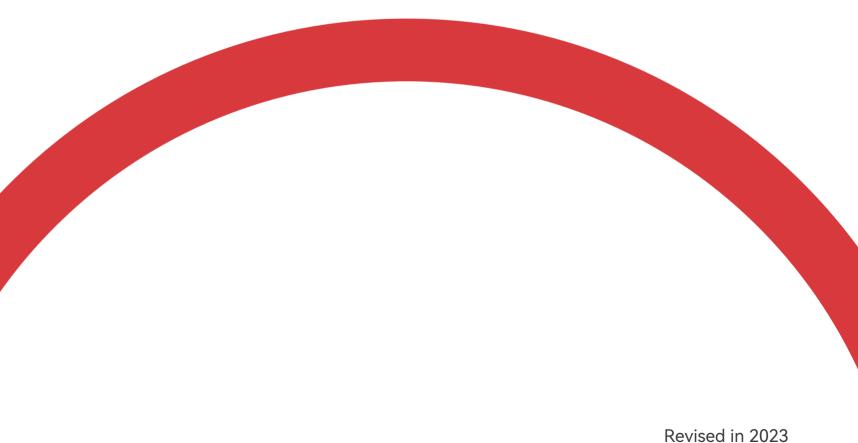
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About Us

Shenzhen EEnovance Energy Technology CO., LTD is a high-tech company that focuses on the research, development, design, production, sales, and support of household and small commercial energy storage and larger industrial and commercial energy storage systems (ESS). Adhering to the principle of "product is life", the company is committed to providing safe, stable, and efficient energy storage products and solutions to global customers and also strives for global sustainable green smart energy.

Specializing in research and development, the company has obtained multiple product patents, with a comprehensive product range. The household and small commercial ESS range includes low-voltage MANA series and high-voltage CHAKRA series batteries, with energy storage capacities ranging from 5kWh to 25kWh. ESSs up to 100kWh can be configured using batteries in parallel, meeting a wide range of household and small commercial requirements. The larger E-MATE industrial and commercial storage series with capacities ranging from 50kWh to 500kWh, can also be configured using multiple models of the same type to create systems meeting user needs. The products include indoor models, outdoor cabinets, outdoor all-in-one systems, containerized systems, and other products, which provide users the flexibility to configure ESSs to meet their specific requirements. The existing products are widely used in European and African countries with high customer satisfaction for quality and stable solutions.

Since its establishment, the company has focused on technological research and development, products, quality, and services to enhance its competitiveness. Located in the manufacturing center of Songshan Lake, Dongguan, the company has established multiple automated production lines, with an annual production capacity of 5GWh, which ensures timely and high-quality deliveries for customer orders. The company has always been customer-focused and established product service centers in many countries, responding promptly to product inquiries and ensuring excellent after-sales service experience.



5.0 + GWh

Annual production capacity



30%

Employees of R&D



300+

Company employees



48~1000 V Flexible battery solutions



150,000+ Installed in the world



50+

Patents in the ESS field







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MANA 5.0 / 5.3 / 10.6 / 16.0





MANA 5.0



MANA 5.3



MANA 10.6



MANA 16.0

[More Usable Energy]

100% Depth of Discharge

Flexible Investment

Up to 15 units in parallel

Safe & Reliable

Premium Lithium Iron Phosphate(LFP) 6000 cycles

Easy Installation

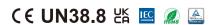
Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF Automatic ID assignment

Perfect Compatibility

Compatible with major PCS brands



Model	MANA 5.0	MANA 5.3	MANA 10.6	MANA 16.0
Performance				
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	5.120 kWh	5.324 kWh	10.649 kWh	15.974 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating voltage	45.6 - 56.16 V			
Nominal output current	100 A / 50 A	100 A / 50 A	200 A / 100 A	300 A / 150 A
BMS protection current	110 A, 1 s	110 A, 1 s	210 A, 1 s	310 A, 1 s

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification				
Dimension (W*D*H)	450×150×533 mm	450×150×533 mm	550×160×836 mm	720×160×916 mm
	17.7×5.9×20.9 inch	17.7×5.9×20.9 inch	21.6×6.3×32.9 inch	28.3×6.3×36.1 inch
Weight	45 kg (99 lbs)	46 kg (101 lbs)	89 kg (196 lbs)	130 kg (287 lbs)
Installation	Floor stand or Wall moun	Floor stand or Wall mounted		
Operating temperature [2]	-20 to 60°C (-4 to 140°F)			
Environmental humidity	≤ 95%RH (No condensation)			
Protection rating	IP 20			
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL			
Scalability	Max 15 batteries in parallel			
Application	ON Grid / ON Grid + Backup / OFF grid			
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)			

Standard Compliance		
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET	
	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)	

Ordering and Deliverable Part				
	MANA 5.0 Battery	MANA 5.3 Battery	MANA 10.6 Battery	MANA 16.0 Battery
Part	MANA 5.0 Parallel cable	MANA 5.3 Parallel cable	MANA 10.6 Parallel cable	MANA 16.0 Parallel cable
	MANA 5.0 to PCS cable	MANA 5.3 to PCS cable	MANA 10.6 to PCS cable	MANA 16.0 to PCS cable

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

Model MANA 5.0 Pro / 5.3 Pro / 10.6 Pro / 16.0 Pro



[More Usable Energy]

100% Depth of Discharge

Flexible Investment

Up to 15 units in parallel

Safe & Reliable

Premium Lithium Iron Phosphate(LFP) 6000 cycles

Easy Installation

Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF Automatic ID assignment

Perfect Compatibility

Compatible with major PCS brands

Model	MANA 5.0 Pro	MANA 5.3 Pro	MANA 10.6 Pro	MANA 16.0 Pro
Performance				
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	5.120 kWh	5.324 kWh	10.649 kWh	15.974 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating voltage	45.6 - 56.16 V			
Nominal output current	100 A / 50 A	100 A / 50 A	200 A / 100 A	300 A / 150 A
BMS protection current	110 A, 1 s	110 A, 1 s	210 A, 1 s	310 A, 1 s

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232 / Wi-Fi

General Specification				
Dimension (W*D*H)	500×150×563 mm	500×150×563 mm	600×160×836 mm	750×160×950 mm
	19.7×5.9×22.2 inch	19.7×5.9×22.2 inch	23.6×6.3×32.9 inch	29.5×6.3×37.4 inch
Weight	45 kg (99 lbs)	46 kg (101 lbs)	89 kg (196 lbs)	130 kg (287 lbs)
Installation	Floor stand or Wall mounted			
Operating temperature [2]	-20 to 60°C (-4 to 140°F)			
Environmental humidity	≤ 95%RH (No condensation)			
Protection rating	IP 55			
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL			
Scalability	Max 15 batteries in parallel			
Application	ON Grid / ON Grid + Backup / OFF grid			
Compatible inverters	Refer to compatible inverter	list (Compatible with major PC	S brands)	

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Par	t			
	MANA 5.0 Pro Battery	MANA 5.3 Pro Battery	MANA 10.6 Pro Battery	MANA 16.0 Pro Battery
Part	MANA 5.0 Pro Parallel cable	MANA 5.3 Pro Parallel cable	MANA 10.6 Pro Parallel cable	MANA 16.0 Pro Parallel cable
	MANA 5.0 Pro to PCS cable	MANA 5.3 Pro to PCS cable	MANA 10.6 Pro to PCS cable	MANA 16.0 Pro to PCS cable

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10° C to 5° C & 45° C to 55° C.

^[3] Please refer to the Warranty Letter for applicable conditions.

MANA 14.33



More Usable Energy]
100% Depth of Discharge	

[Flexible Investment] Up to 15 units in parallel

Safe & Reliable

Premium Lithium Iron Phosphate(LFP) 6000 cycles

Easy Installation

Floor stand or wall mounted

[Quick Commissioning]

[Perfect Compatibility]

One button ON/OFF Automatic ID assignment

Compatible with major PCS brands

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Model	MANA 14.33		
Performance			
Cell technology	LFP (LiFePO4)		
Battery usable energy [1]	14.33 kWh		
Nominal voltage	512 V		
Operating voltage	45.6 - 56.16 V		
Nominal output current	140 A / 280 A		
BMS protection current	600 A, 300 µs		

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232 / Wi-Fi

General Specification	
Dimension (W*D*H)	800×250×839 mm
Differsion (W D FI)	31.5×9.8×33.0 inch
Weight	145 kg (320 lbs)
Installation	Floor stand or Wall mounted
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Max 15 batteries in parallel
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
Certificates	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Part	
	MANA 14.33 Battery
Part	MANA 14.33 Parallel cable
	MANA 14.33 to PCS cable

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25° C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.
[3] Please refer to the Warranty Letter for applicable conditions.

MANA 5.12-S



More Usable Energy]
100% Depth of Discharge	

Flexible Investment Up to 15 units in parallel

Safe & Reliable

Premium Lithium Iron Phosphate(LFP) 6000 cycles

Easy Installation

Floor stand or wall mounted

[Quick Commissioning]

[Perfect Compatibility]

One button ON/OFF Automatic ID assignment

Compatible with major PCS brands

Model	MANA 5.12-S
Performance	
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	5.12 kWh
Nominal voltage	51.2 V
Operating voltage	55.2-56.16 V
Nominal output current	100 A / 50 A
BMS protection current	110 A, 1 s

Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232 / Wi-Fi	

General Specification					
Dimension (W*D*H)	460×161.5×614 mm				
	18.1×6.4×24.2 inch				
Weight	47 kg (104 lbs)				
Installation	Floor stand or Wall mounted				
Operating temperature [2]	20 to 60°C (-4 to 140°F)				
Environmental humidity	≤ 95%RH (No condensation)				
Protection rating	IP 20				
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL				
Scalability	Max 15 batteries in parallel				
Application	ON Grid / ON Grid + Backup / OFF grid				
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)				

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
oci direaces	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Part				
	MANA 5.12-S Battery			
Part	MANA 5.12-S Parallel cable			
	MANA 5.12-S to PCS cable			

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

RT 2560 / RT 5120 / RT 5320





More Usable Energy

100% Depth of Discharge

Flexible Investment

Modular design Max 15 batteries in parallel

Safe & Reliable

Premium Lithium Iron Phosphate(LFP) 6000 cycles

[Easy Installation]

Rack / Wall / Cabinet-mounted

Quick Commissioning

Automatic ID assignment

[Perfect Compatibility]

Compatible with major PCS brands

Model	RT 2560	RT 5320			
Performance					
Cell technology	LFP (LiFePO4)				
Battery usable energy [1]	2.560 kWh	2.560 kWh 5.120 kWh 5.324 kWh			
Nominal voltage	51.2 V	51.2 V	51.2 V		
Operating voltage	45.6 - 56.16 V	45.6 - 56.16 V	45.6 - 56.16 V		
Nominal output current	50 A / 25 A	100 A / 50 A	100 A / 50 A		
BMS protection current	110 A, 1 s	110 A, 1 s	110 A, 1 s		

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification								
Dimension (W*D*H)	440×480×115 mm	440×550×130 mm						
Dimension (w·D·H)	17.32×18.90×4.53 inch	17.3×21.6×5.12 inch	17.3×21.6×5.12 inch					
Weight	30 kg (66 lbs)	45 kg (99 lbs)	46 kg (101 lbs)					
Installation	Rack / Wall / Cabinet-Mounted	Rack / Wall / Cabinet-Mounted						
Operating temperature [2]	-20 to 60°C (-4 to 140°F)							
Environmental humidity	≤ 95%RH (No condensation)							
Protection rating	IP 20							
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL						
Scalability	Max 15 batteries in parallel	Max 15 batteries in parallel						
Application	ON Grid / ON Grid + Backup / OFF grid							
Compatible inverters	Refer to compatible inverter lis	Refer to compatible inverter list (Compatible with major PCS brands)						

Standard Compliance	
Certificates	Cell: UN38,3 / IEC62619 / UL 1642 / JET
Cerunicates	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Part						
	RT 2560 Battery	RT 5120 Battery	RT 5320 Battery			
Part	RT 2560 Parallel cable	RT 5120 Parallel cable	RT 5320 Parallel cable			
	RT 2560 to PCS cable	RT 5120 to PCS cable	RT 5320 to PCS cable			

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

RT 5.12-H





More Usable Energy

100% Depth of Discharge

[Flexible Investment]

5.12 kWh modular design Max 12 modules per stack, 4 stacks in parallel

Safe & Reliable

Cobalt Free Lithium Iron Phosphate (LFP) battery has maximum safety and 6000 cycles

[Easy Installation]

Internal plug design and no additional wiring

Quick Commissioning

One button ON/OFF Automatic ID assignment

Perfect Compatibility

Compatible with leading PCS brands

Model	RT 5.12-H4	RT 5.12-H5	RT 5.12-H6	RT 5.12-H7	RT 5.12-H8	RT 5.12-H9	RT 5.12-H10	RT 5.12-H11	RT 5.12-H12
Performance									
Cell technology	LFP (LiFePO4)								
Number of modules	4	5	6	7	8	9	10	11	12
Battery usable energy [1]	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh	56.32 kWh	61.44 kWh
Nominal voltage	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V	512 V	563.2 V	614.4 V
Operating voltage	182.4 - 224.64 V	228.0 - 280.80 V	273.6 - 336.96 V	319.2 - 393.12 V	364.8 - 449.28 V	410.4 - 505.44 V	456.0 - 516.60 V	501.6 - 617.76 V	547.2 - 673.92 V
Max output current	100 A (1C)	100 A (1C)							
Charge/Discharge current	50 A / 100 A								

Communication					
Display	SOC status indicator, LED indicator				
Communication	CAN / RS485 / RS232				
Functions	Remote upgrade, EMS, Real-time monitoring of local data				

General Specific	ation								
Dimension (W*D*H)	620×630×2240 r	nm							
Dilliension (W D H)	24.4×24.8×88.2 ii	nch							
Weight	390 kg (859.8 lbs)	435 kg (959.0 lbs)	480 kg (1058.2 lbs)	525 kg (1157.4 lbs)	570 kg (1256.6 lbs)	615 kg (1355.9 lbs)	660 kg (1455.1 lbs)	705 kg (1554.3 lbs)	750 kg (1653.5 lbs)
Installation	Floor stand								
Operating temperature [2]	-20 to 60°C (-4 to	20 to 60°C (-4 to 140°F)							
Environmental humidity	≤ 95%RH (No co	95%RH (No condensation)							
Protection rating	IP 20	20							
Cycle life [3]	6000 Cycles @ 8	000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL							
Scalability	Max 12 modules	1/ax 12 modules per stack, 4 stacks in parallel							
Application	ON Grid / ON Gr	N Grid / ON Grid + Backup / OFF grid							
Compatible inverters	Refer to compat	ible inverter list (Co	ompatible with maj	jor PCS brands)					

Standard Comp	oliance State of the Control of the
Certificates	UN38.3 / IEC62619 / IEC62040-1 (More available upon request)

Ordering and Deliverable Part										
	RT-5.12-QC-A									
Part	RT-BCU-M- 20.48-QC	RT-BCU-M- 25.60-QC	RT-BCU-M- 30.72-QC	RT-BCU-M- 35.84-QC	RT-BCU-M- 40.96-QC	RT-BCU-M- 46.08-QC	RT-BCU-M- 51.20-QC	RT-BCU-M- 56.32-QC	RT-BCU-M- 61.44-QC	

- [1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
- [2] Charge/discharge derating occurs when the operating temperature from -10° C to 5° C & 45° C to 55° C.
- [3] Please refer to the Warranty Letter for applicable conditions.

RT 5.32-H





More Usable Energy

100% Depth of Discharge

[Flexible Investment]

5.32 kWh modular design Max 12 modules per stack, 4 stacks in parallel

Safe & Reliable

Cobalt Free Lithium Iron Phosphate (LFP) battery has maximum safety and 6000 cycles

[Easy Installation]

Internal plug design and no additional wiring

Quick Commissioning

One button ON/OFF Automatic ID assignment

Perfect Compatibility

Compatible with leading PCS brands

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DATASHEET

Model	RT 5.32-H4	RT 5.32-H5	RT 5.32-H6	RT 5.32-H7	RT 5.32-H8	RT 5.32-H9	RT 5.32-H10	RT 5.32-H11	RT 5.32-H12	
Performance										
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)								
Number of modules	4	5	6	7	8	9	10	11	12	
Battery usable energy [1]	21.29 kWh	26.62 kWh	31.94 kWh	37.27 kWh	42.59 kWh	47.92 kWh	53.24 kWh	58.57 kWh	63.89 kWh	
Nominal voltage	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V	512 V	563.2 V	614.4 V	
Operating voltage	182.4 - 224.64 V	228.0 - 280.80 V	273.6 - 336.96 V	319.2 - 393.12 V	364.8 - 449.28 V	410.4 - 505.44 V	456.0 - 516.60 V	501.6 - 617.76 V	547.2 - 673.92 V	
Max output current	104 A (1C)	104 A (1C)								
Charge/Discharge current	52 A / 104 A	52 A / 104 A								

Communication							
Display	SOC status indicator, LED indicator						
Communication	CAN / RS485 / RS232						
Functions Remote upgrade, EMS, Real-time monitoring of local data							

General Specific	ation									
Dimension (W*D*H)	620×630×2240 mm									
Dimension (W D 11)	24.4×24.8×88.2 ii	nch								
Weight	390 kg (859.8 lbs)	435 kg (959.0 lbs)	480 kg (1058.2 lbs)	525 kg (1157.4 lbs)	570 kg (1256.6 lbs)	615 kg (1355.9 lbs)	660 kg (1455.1 lbs)	705 kg (1554.3 lbs)	750 kg (1653.5 lbs)	
Installation	Floor stand									
Operating temperature [2]	-20 to 60°C (-4 t	-20 to 60°C (-4 to 140°F)								
Environmental humidity	≤ 95%RH (No co	ndensation)								
Protection rating	IP 20									
Cycle life [3]	6000 Cycles @ 8	0% DOD / 25°C / 0).5C, 60% EOL							
Scalability	Max 12 modules	Max 12 modules per stack, 4 stacks in parallel								
Application	ON Grid / ON Gr	id + Backup / OFF	grid							
Compatible inverters	Refer to compat	ible inverter list (Co	ompatible with ma	jor PCS brands)						

Standard Comp	liance
Certificates	UN38.3 / IEC62619 / IEC62040-1(More available upon request)

Ordering and Deliverable Part											
	RT-5.32-QC-A	RT-5.32-QC-A									
Part	RT-BCU-M- 21.29-QC	RT-BCU-M- 26.62-QC	RT-BCU-M- 31.94-QC	RT-BCU-M- 37.27-QC	RT-BCU-M- 42.59-QC	RT-BCU-M- 47.92-QC	RT-BCU-M- 53.24-QC	RT-BCU-M- 58.57-QC	RT-BCU-M- 63.89-QC		

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

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^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

CHAKRA 2.5-H



More Usable Energy

100% Depth of Discharge

Flexible Investment

2.5 kWh modular design Max 10 modules per stack, 4 stacks in parallel

Safe & Reliable

Cobalt Free Lithium Iron Phosphate (LFP) battery has maximum safety and 6000 cycles

[Easy Installation]

Internal plug design and no additional wiring

[Quick Commissioning]

One button ON/OFF Automatic ID assignment

[Perfect Compatibility]

Compatible with leading PCS brands



Model	CHAKRA 2.5-H4	CHAKRA 2.5-H5	CHAKRA 2.5-H6	CHAKRA 2.5-H7	CHAKRA 2.5-H8	CHAKRA 2.5-H9	CHAKRA 2.5-H10		
Performance									
Battery module (Wh/V)	2.56 kWh, 51.2 V, 30	2.56 kWh, 51.2 V, 30 kg (67 lbs)							
Number of modules	4	5	6	7	8	9	10		
Cell technology	LFP (LiFePO4)		'		'	'			
Battery usable energy [1]	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh	23.04 kWh	25.60 kWh		
Nominal voltage	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V	460.8 V	512.0 V		
Operating voltage	182.40 - 224.64 V	228 - 280.8 V	273.6 - 336.96 V	319.2 - 393.12 V	364.8 - 449.28 V	410.4 - 505.44 V	456 - 561.6 V		
Max output current	25 A (0.5C)								

Communication							
Display	SOC status indicator, LED indicator						
Communication	CAN / RS485 / RS232						

General Specification									
Dimension (W*D*H)	560×359×815 mm	560×359×950 mm	560×359×1085 mm	560×359×1220 mm	560×359×1355 mm	560×359×1490 mm	560×359×1625 mm		
	22.1×14.2×32.1 inch	22.1×14.2×37.4 inch	22.1×14.2×42.7 inch	22.1×14.2×48.0 inch	22.1×14.2×53.4 inch	22.1×14.2×58.7 inch	22.1×14.2×64.0inch		
Weight	160 kg (352.8 lbs)	190 kg (418.9 lbs)	220 kg (485 lbs)	250 kg (551 lbs)	280 kg (617 lbs)	310 kg (683 lbs)	340 kg (750 lbs)		
Installation	Floor stand	Floor stand							
Operating temperature [2]	-20 to 60°C (-4 to 14	-20 to 60°C (-4 to 140°F)							
Environmental humidity	≤ 95%RH (No conder	nsation)							
Protection rating	IP 20								
Cycle life [3]	6000 Cycles @ 80% [OOD / 25°C / 0.5C, 60%	EOL						
Scalability	Max 10 modules per	stack, 4 stacks in parall	el						
Application	ON Grid / ON Grid + E	ON Grid / ON Grid + Backup / OFF grid							
Compatible inverters	Refer to compatible i	nverter list (Compatible	with major PCS brand	s)					

Standard Complian	ce
Certificates	UN38.3 / IEC62619 / IEC62040-1 (More available upon request)

Ordering and Deliverable Part							
Part	CHAKRA 2.5-H (Battery module)						
Part	CHAKRA 25-H-BCU						

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

E-MATE 50-A



Overview

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

Easy Installation and Maintenance

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[High Density]

LP high-capacity Li-lon battery with aluminum shell, over 130wh/kg

Long Lifespan

Long life cycle, 6000 cycles*

[Cell Balancing Technology]

Active cell balancing and passive cell balancing







Model	E-MATE 50-A	E-MATE 60-A	E-MATE 70-A						
Performance									
Battery module (Wh/V)	5.12 kWh, 51.2 V, 45.9 kg (101 lbs)	5.12 kWh, 51.2 V, 45.9 kg (101 lbs)							
Number of modules	10	12	14						
Cell technology	LFP (LiFePO4)								
Battery usable energy [1]	51.20 kWh	61.44 kWh	71.68 kWh						
Nominal voltage	512.0 V	614.4 V	716.8 V						
Operating voltage	456.00 - 561.60 V	547.20 - 673.92 V	638.40 - 786.24 V						
Nominal output current	50 A								

Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232	

General Specification				
Dimension (W*D*H)	1410×320×1043 mm	1410×320×1187 mm	1410×320×1331 mm	
Dimension (** D 11)	55.5×12.6×41.1 inch	55.5×12.6×46.7 inch	55.5×12.6×52.4 inch	
Weight	About 508 kg (1120 lbs) About 600 kg (1323 lbs) About 692 kg (1526 lbs)			
Operating temperature [2]	-20 to 60 °C (-4 to 140 °F)			
Environmental humidity	≤ 95%RH (No condensation)			
Protection rating	IP 20			
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL			
Scalability	Yes			
Application	ON Grid / ON Grid + Backup / OFF grid			
Compatible PCS	Refer to compatible PCS list			

Standard Compliance		
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET	
	Pack: UN38.3 / IEC62619 / IEC61000	
	Available upon request	

Ordering and Deliverable Part				
	E-MATE-5.12-QC-B (Battery module)			
Part	E-MATE-BCU-M-50-QC (Main control box)	E-MATE-BCU-M-60-QC (Main control box)	E-MATE-BCU-M-70-QC (Main control box)	
	E-MATE-BP-5.12 (Battery pedestal)			

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10° C to 5° C & 45° C to 55° C.

^[3] Please refer to the Warranty Letter for applicable conditions.

E-MATE 80 Model



Overview

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

Easy Installation and Maintenance

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

High Density

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing

Model	E-MATE 80
Performance	
Battery module (Wh/V)	6.144 kWh, 51.2 V, 64 kg (141 lbs)
Number of modules	13
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	79.87 kWh
Nominal voltage	665.6 V
Operating voltage	592.8 - 730.08 V
Nominal output current	48 A

Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232	

General Specification	
Dimension (W*D*H)	2420×305×1150 mm
Difficusion (W D H)	95.3×12×45.3 inch
Weight	About 886 kg (1953 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

Standard Compliance		
	Cell: UN38.3 / IEC62619 / UL 1642 / JET	
Certificates	Pack: UN38.3 / IEC62619 / IEC61000	
	Available upon request	

Ordering and Deliverable Part		
	E-MATE-6.1P-OT (Battery module)	
Part	E-MATE-BCU-080H1-OT (Main control box)	
	E-MATE-6.1BP (Battery pedestal)	

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.













^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

E-MATE 143R Model



Overview

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[High Density]

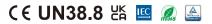
LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing



Model	E-MATE 114R	E-MATE 129R	E-MATE 143R
Performance			
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5	5 lbs)	
Number of modules	8	9	10
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	114.688 kWh	129.024 kWh	143.36 kWh
Nominal voltage	409.6 V	460.8 V	512 V
Operating voltage	364.8 - 449.28 V	410.4 - 505.44 V	456 - 561.6 V
Nominal output current	140 A / 280 A	140 A / 280 A	140 A / 280 A

Communication		
Display	SOC status indicator, LED indicator, LCD display	
Communication	Ethernet / CAN / RS485	

General Specification					
Dimension (W*D*H)	1164×840×1776 mm				
Dimension (w·D·H)	45.8×33.1×69.9 inch				
Weight	1130 kg (2491 lbs)	1130 kg (2491 lbs) 1240 kg (2734 lbs) 1350 kg (2976 lbs)			
Operating temperature [2]	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)			
Environmental humidity	≤ 95%RH (No condensation)				
Protection rating	IP 20				
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL				
Scalability	Yes				
Application	ON Grid / ON Grid + Backup / OFF grid				
Compatible PCS	Refer to compatible PCS list				

Standard Compliance	
	Cell: UN38.3 / IEC62619 / UL 1642 / JET
Certificates	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

Ordering and Deliverable Part			
	E-MATE-14.3-QC		
Part	E-MATE-BCU-M-114-QC	E-MATE-BCU-M-129-QC	E-MATE-BCU-M-143-QC
	E-MATE-R12		

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

Model **E-MATE 229R**



Overview

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing

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Model	E-MATE 157R	E-MATE 200R	E-MATE 215R	E-MATE 229R
Performance				
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 k	g (242.5 lbs)		
Number of modules	11	14	15	16
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	157.696 kWh	200.704 kWh	215.04 kWh	229.376 kWh
Nominal voltage	563.2 V	716.8 V	768.0 V	819.2 V
Operating voltage	501.6 - 617.76 V	638.4 - 786.24 V	684 - 842.4 V	729.6 - 898.56 V
Nominal output current	140 A / 280 A	140 A / 280 A	140 A / 280 A	140 A / 280 A

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification					
Dimension (W*D*H)	1721×840×1776 mm	1721×840×1776 mm 66.8×33.1×69.9 inch			
Difficusion (W D H)	66.8×33.1×69.9 inch				
Weight	1540 kg (3395 lbs)	1540 kg (3395 lbs) 1870 kg (4122 lbs) 1980 kg (4365 lbs) 2090 kg (4608 lbs)			
Operating temperature [2]	-20 to 60°C (-4 to140 °F)				
Environmental humidity	≤ 95%RH (No condensation	≤ 95%RH (No condensation)			
Protection rating	IP 20				
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL				
Scalability	Yes				
Application	ON Grid / ON Grid + Backup / OFF grid				
Compatible PCS	Refer to compatible PCS list				

Standard Compliance	
	Cell: UN38.3 / IEC62619 / UL 1642 / JET
Certificates	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

Ordering and Deliverable Part				
	E-MATE-14.3-QC			
Part	E-MATE-BCU-M-157-QC	E-MATE-BCU-M-200-QC	E-MATE-BCU-M-215-QC	E-MATE-BCU-M-229-QC
	E-MATE-R18			

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

E-MATE 200C Model



Overview

Outdoor battery cabinet with IP55 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles

[Cell Balancing Technology]

Active cell balancing and passive cell balancing

Model	E-MATE 200C
Performance	
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules	14
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	200.704 kWh
Nominal voltage	7168 V
Operating voltage	638.4 - 786.24 V
Nominal output current	140 A / 280 A

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification	
Dimension (W*D*H)	1500×1050×2200 mm
Difficultion (W D T)	50.1×41.3×86.6 inch
Weight	1900 kg (4189 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 55
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

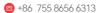
Standard Compliance	
	Cell: UN38.3 / IEC62619 / UL 1642 / JET
Certificates	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25° C.













^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

Model **E-MATE 500GP**



Overview

Outdoor battery container with IP55 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

Safe & Reliable

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

High Density

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

Long Lifespan

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing

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Model	E-MATE 500GP
Performance	
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules	18*2
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	516.096 kWh
Nominal voltage	921.6 V
Operating voltage	820.8 - 1010.9 V
Nominal output current	140 A*2 / 280 A* 2

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification	
Dimension (W*D*H)	2991×2438×2591 mm
	117.8×95.9×102 inch
Weight	8000 kg (17637 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 55
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

^[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25° C.

^[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

^[3] Please refer to the Warranty Letter for applicable conditions.

Certificate































